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6/22/04

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Signature

IN THE U.S. PATENT AND TRADEMARK OFFICE

Inventor **Markus FORSTHUBER**  
Patent App. **10/765,457**  
Filed **26 January 2004** Conf. No. **8602**  
For **HEATING ELEMENT AND METHOD OF MAKING SAME FOR  
USE AS AN IGNITER FOR PYROTECHNIC CHARGES**  
Art Unit **3641**

Hon. Commissioner of Patents  
Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

There are enclosed a European Search Report in the corresponding European application EP 04 10 015.1 and an office action in the corresponding Austrian application A 117/2003 along with a PTO-1449 listing the references not already of record and enclose copies of each of these references.

The references in the European Search Report have been cited as follows:

U.S. Patent 4,708,060 in category X: of special significance taken alone with reference to examined claims 1 to 3

\*col. 2, line 23 to line 33\*

\*col. 3, line 36 to line 38\*

**\*FIG. 2a\***

cited in category D: as a document mentioned in the application and in category Y: of special significance in combination with another reference of the same category, with reference to examined claims 4 to 6.

AT 405 591 cited in category Y with reference to examined claims 4 to 8

**\*col. 3, line 20 to line 23\***

**\*page 3, lines 38 to 40\***

**\*page 3, line 54 to page 4, line 13\***

**\*page 5, line 6 to line 7\***

**\*Abstract\***

It has also been cited in category D.

Patent Publication 2002/069780 is cited in category Y for paragraph 0007 and its abstract with reference to examined claims 7 and 8.

U.S. Patent 6,230,624 is cited in category A:

**Technological Background**

**\*col. 3, lines 47 to 49 with respect to examined claim 3\***

The Austrian Patent 405,591 is said to have a U.S.

counterpart A 6 316 752.

In the Austrian Office Action the Examiner has stated as follows:

"With respect to the claimed heating element, it is noted that it is a selection invention which chooses from a known range of dimensions is a known article a special range as inventive. Thus from U. S. Patent 6,324,979 B1 TROIANELLO 4 December 2001 (04.12.2001) the geometric tensioning of the claimed heating elements is known: According to col. 4, lines 54 ff an effective volume of  $1.2 \times 10^{-14}$  to  $2.4 \times 10^{-12}$  meters<sup>3</sup> has been given which is covered as a new example on page 7 of the description and is also covered in the tension range of claim 1. Also the cross section specification according to claim 2 has been described previously from the disclosure thereof as less than  $8 \times 10^{-10}$  meter<sup>2</sup>. Furthermore, U.S. Patent 6,289,813 (Duguet), 18 September 2001 (18.09.2001) is described at col. 4, line 4ff a specific resistance of  $0.5 \times 10^{-6}$  to  $2 \times 10^{-6}$  ohms for the heating element. In addition, the materials which are used for the heating elements to obtain the specific heating capacity ranges are described. Thus the ranges of the claimed tensions according to claims 1 and 2 are disclosed as

known . . ."

Neither a certification nor an IDS consideration fee is required since this IDS is filed prior to the initial office action on the merits.

Consideration of the documents provided herein is requested.

Respectfully submitted,  
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db-

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10/765,457

APPLICANT

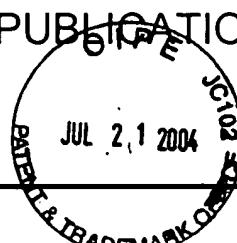
Markus FORSTHUBER

FILING DATE

26 January 2004

GROUP

3641

LIST OF PATENTS  
AND PUBLICATIONS

## U.S. PATENT DOCUMENTS

EX. INIT		DOCUMENT NO. Cntry code - No.	DATE MM-YYYY	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA	US-4,708,060	24 Nov. 87	Bickes, Jr. et al			
	BB	US-6,230,624	15 May 01	Chatley, Jr. et al			
	CC	US-6,324,979	4 Dec. 01	Troianello			
	DD	US-6,289,813	18 Sept. 01	Duguet et al			
	EE	US-					
	FF	US-					
	GG	US-					
	HH	US-					

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO. Cntry Code - No.	DATE MM-YYYY	COUNTRY	NAME	CLASS	TRANSL.	
							YES	NO
	AI	AT 405 591 B	27 Sept. 99	Germany				
	AJ							
	AK							
	AL							
	AM							
	AN							
	AO							
	AP							
	AR							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	Patent Application Publication - US 2002/0069780 A1 - Pub. Date: June 13, 2002 - BOS
AT	
AU	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if Reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

21 July 2004

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